

## Claims

**1.** An apparatus to determine position coordinates from sensing linear acceleration relative to space (inertia), comprising:

- a linear acceleration sensor; and
- an integrator,

wherein the acceleration is integrated at a rate appropriate for the resolution of the position coordinate.

**2.** The apparatus of claim 1 further including an analog-to-digital converter.

**3.** The apparatus of claim 2 further including a digital adder.

**4.** The apparatus of claim 1 further including a disable button operated externally by the user to allow said pointer to be moved in space without a corresponding detection of motion.

**5.** A method to determine position coordinates from sensing linear acceleration relative to space (inertia), comprising:

- detecting acceleration; and
- integrating said acceleration into position,

wherein said acceleration is integrated at a rate appropriate for the resolution of the position coordinate.